

ABSTRACT OF THE DISCLOSURE

A power generating wind turbine includes parts and compoments installed in or on a nacelle which are made smaller and lighter, thus facilitating maintenance. A main shaft 11, a gear-box for speeding up rotation of the main shaft 11 and a generator 13
5 driven by an output of the gear-box 11 are provided on a nacelle bed plate 6. The main shaft 11 is connected to an input shaft 12a end of the gear-box 12 via a double-row tapered roller bearing 16. The main shaft 11 is supported to a wall portion W1 of the nacelle bed plate 6 with the double-row tapered roller bearing 16 being
10 interposed therebetween. The main shaft 11 is formed in an annular shape having its outer diameter D1 larger than its axial directional length L1.